

Fig. 1 Prior Art

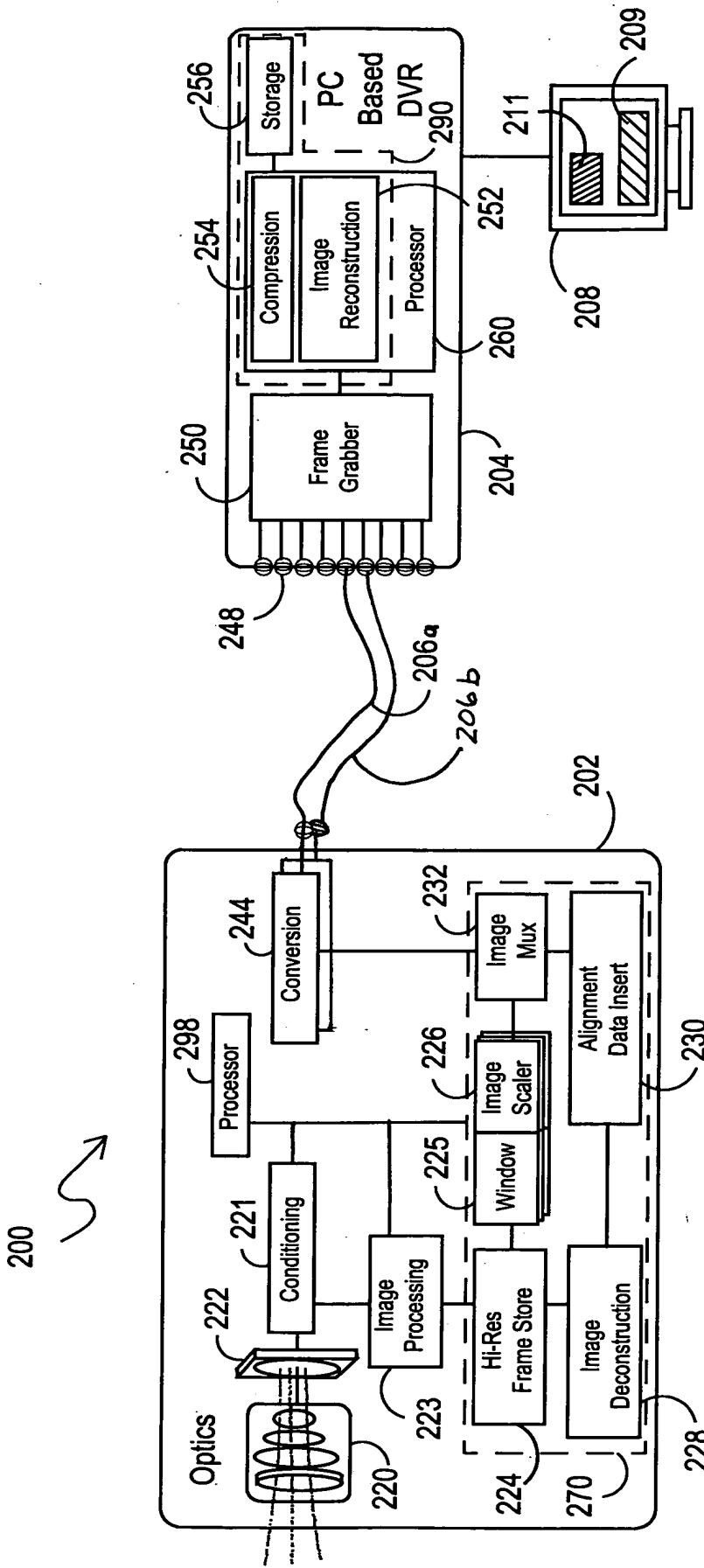


Fig. 2

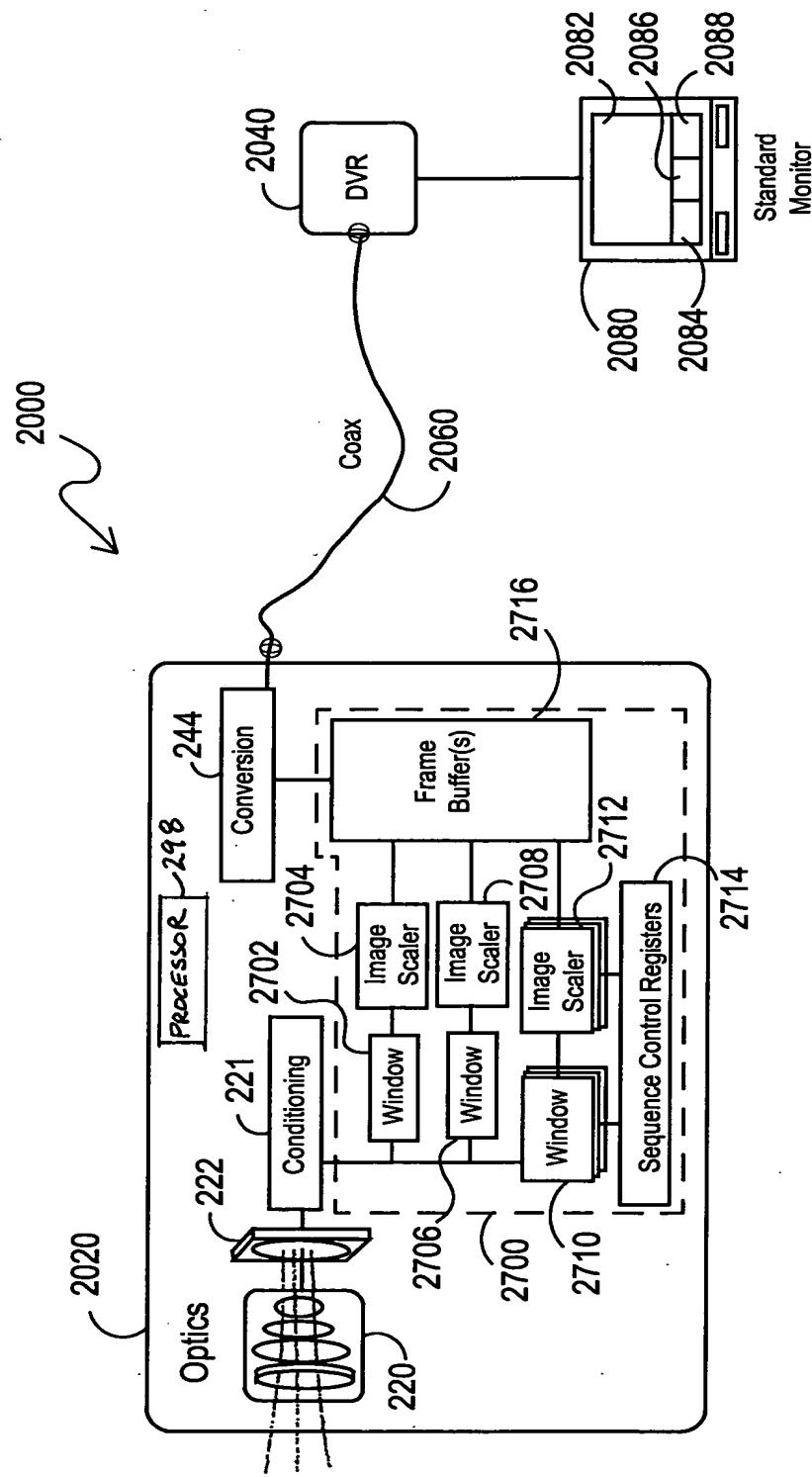


Fig. 3A

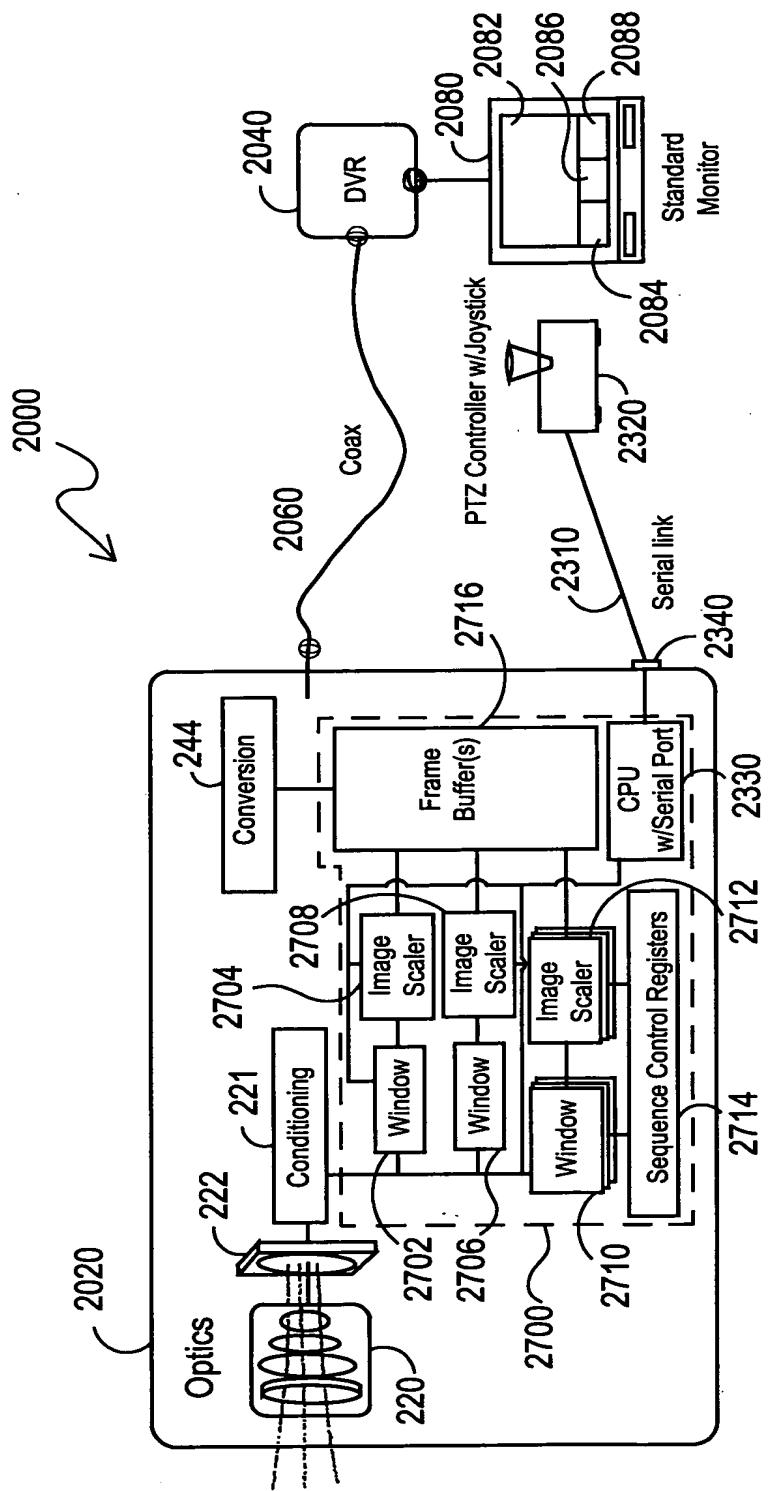
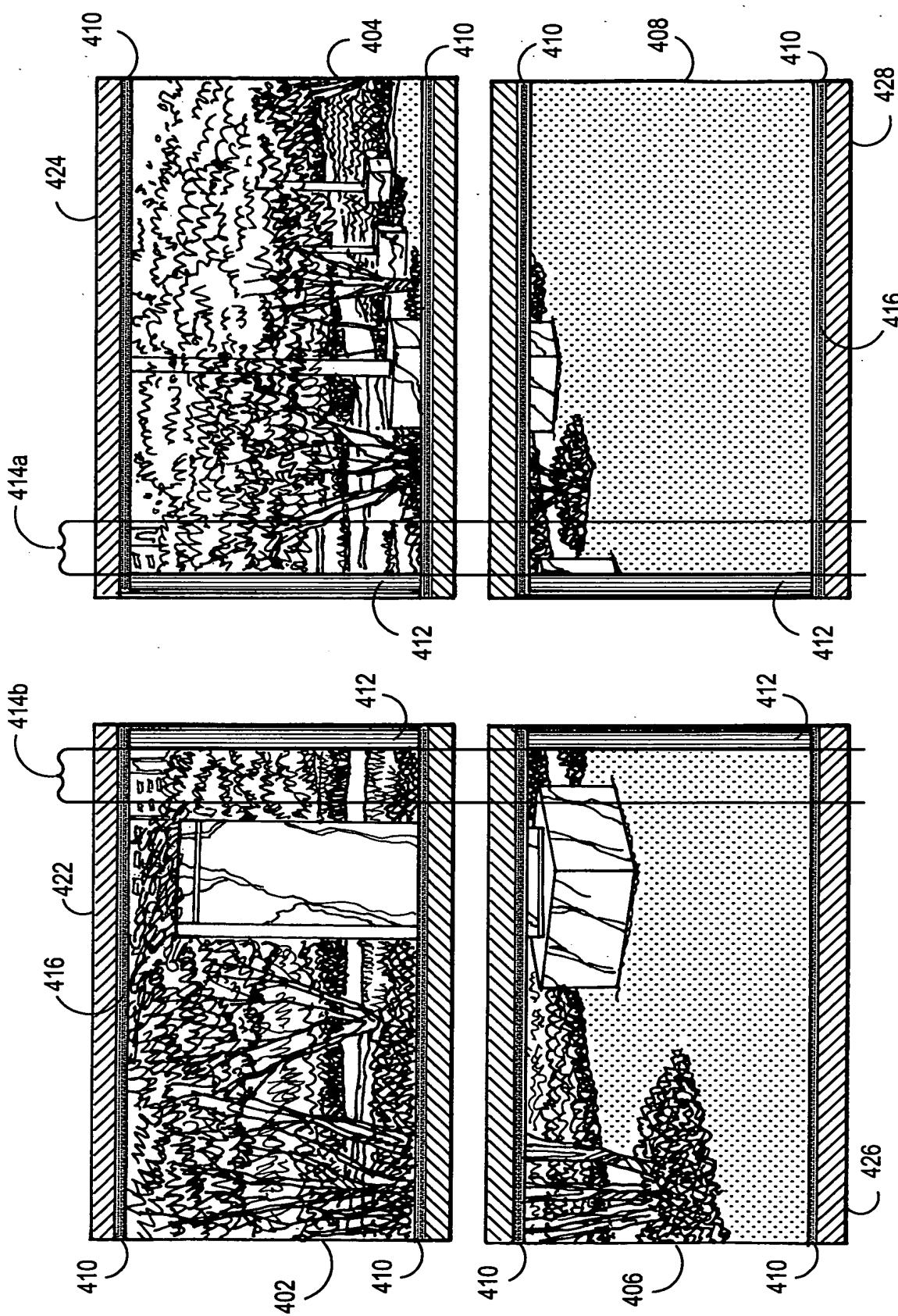


Fig. 3B

FIG. 4A



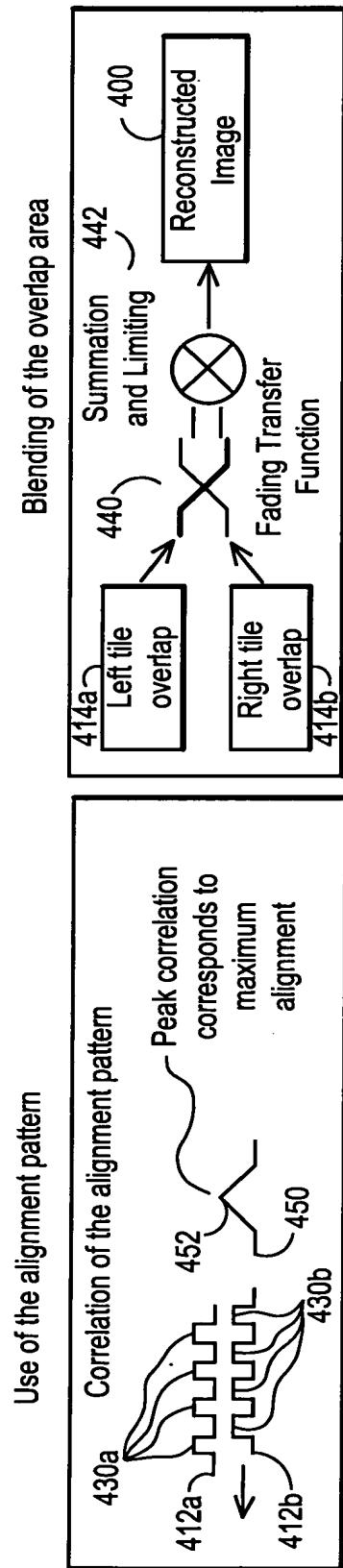
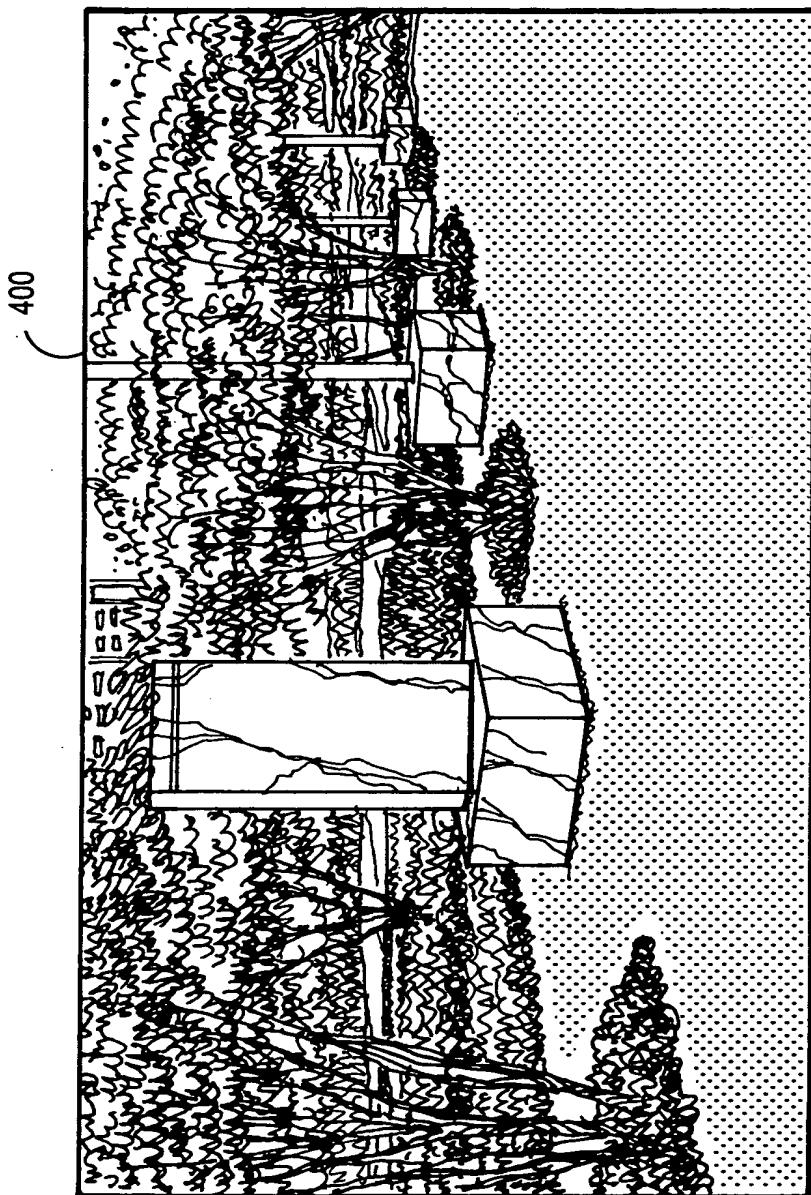


FIG. 4C

FIG. 4B

FIG. 4D - Reconstructed Image



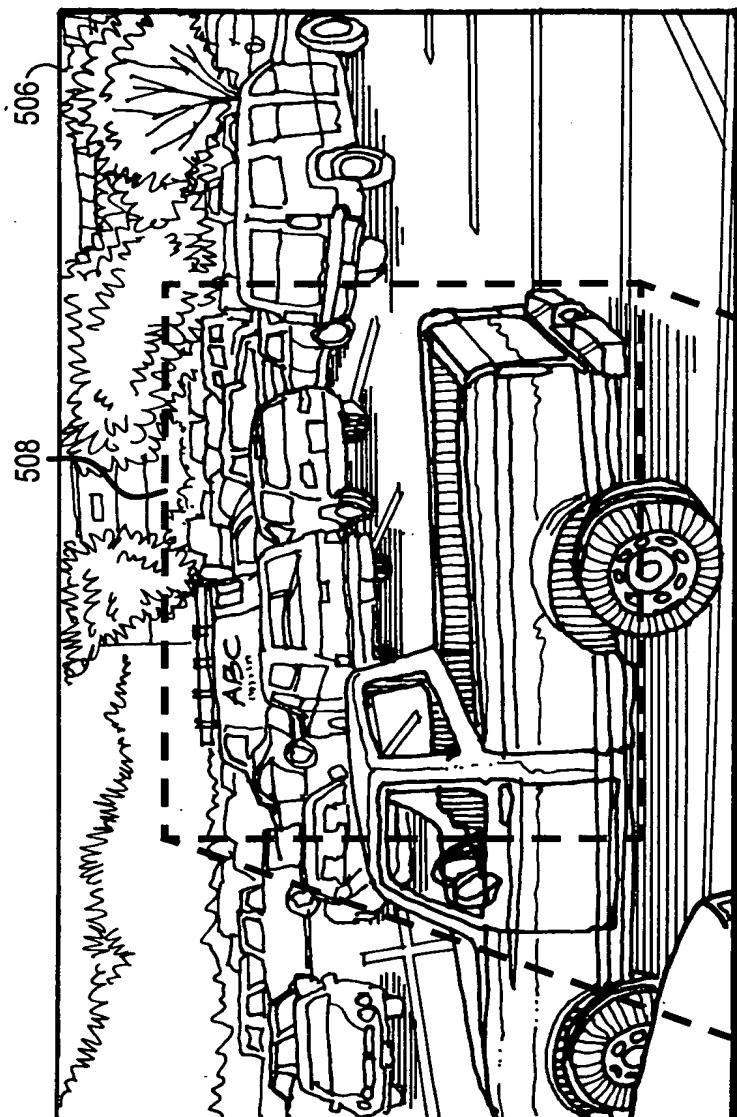


FIG. 5A

Example of extraction of a
640x480 area out of the
1280x720 sensor array

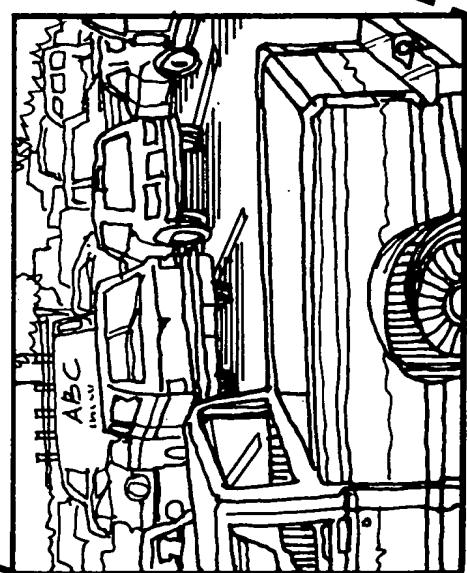


FIG. 5B

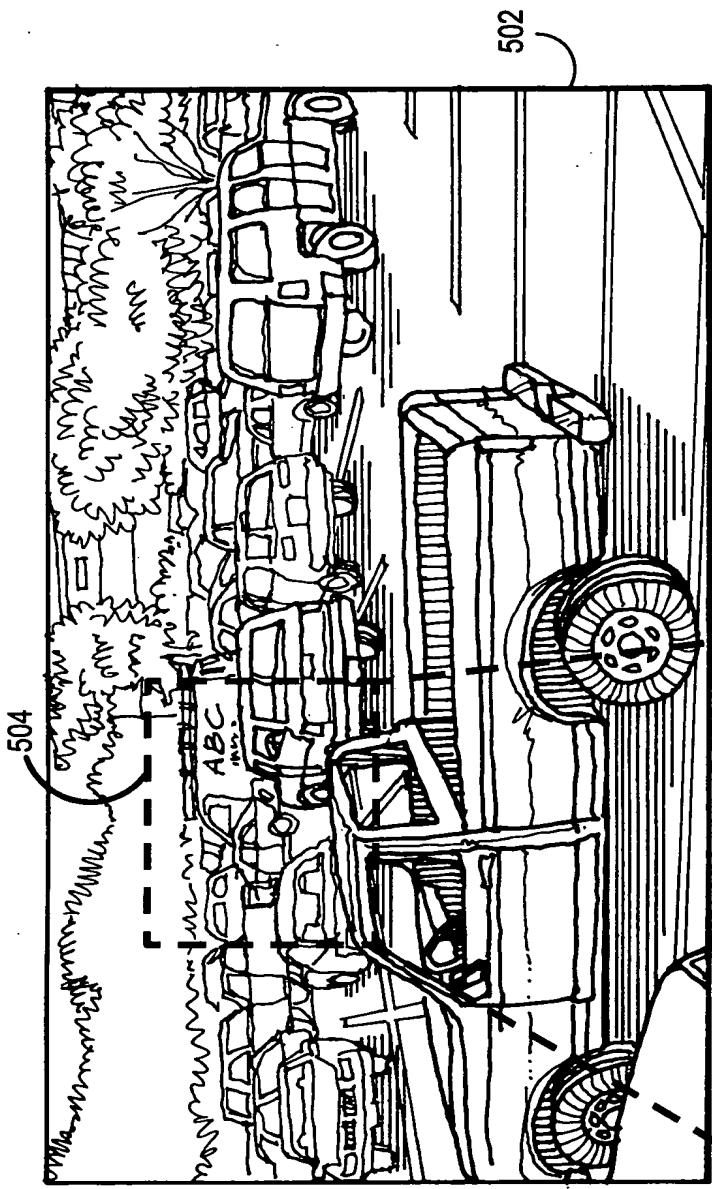
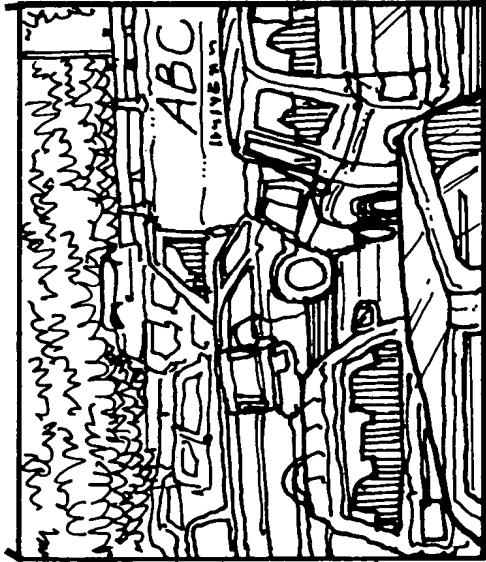


FIG. 5C

Example of extraction of a 320x240
area out of the 1280x720 sensor
array and scaling the 320x240
section out to 640x480



550

FIG. 5D



FIG. 6A

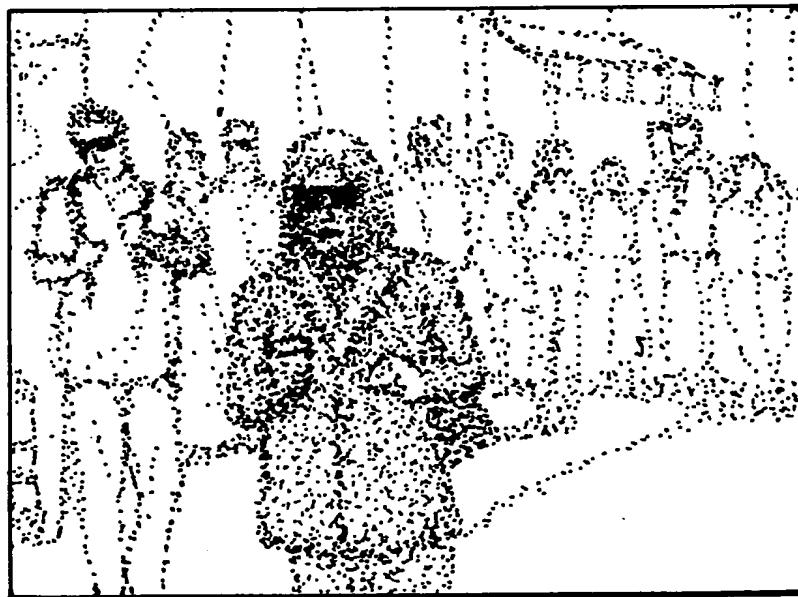
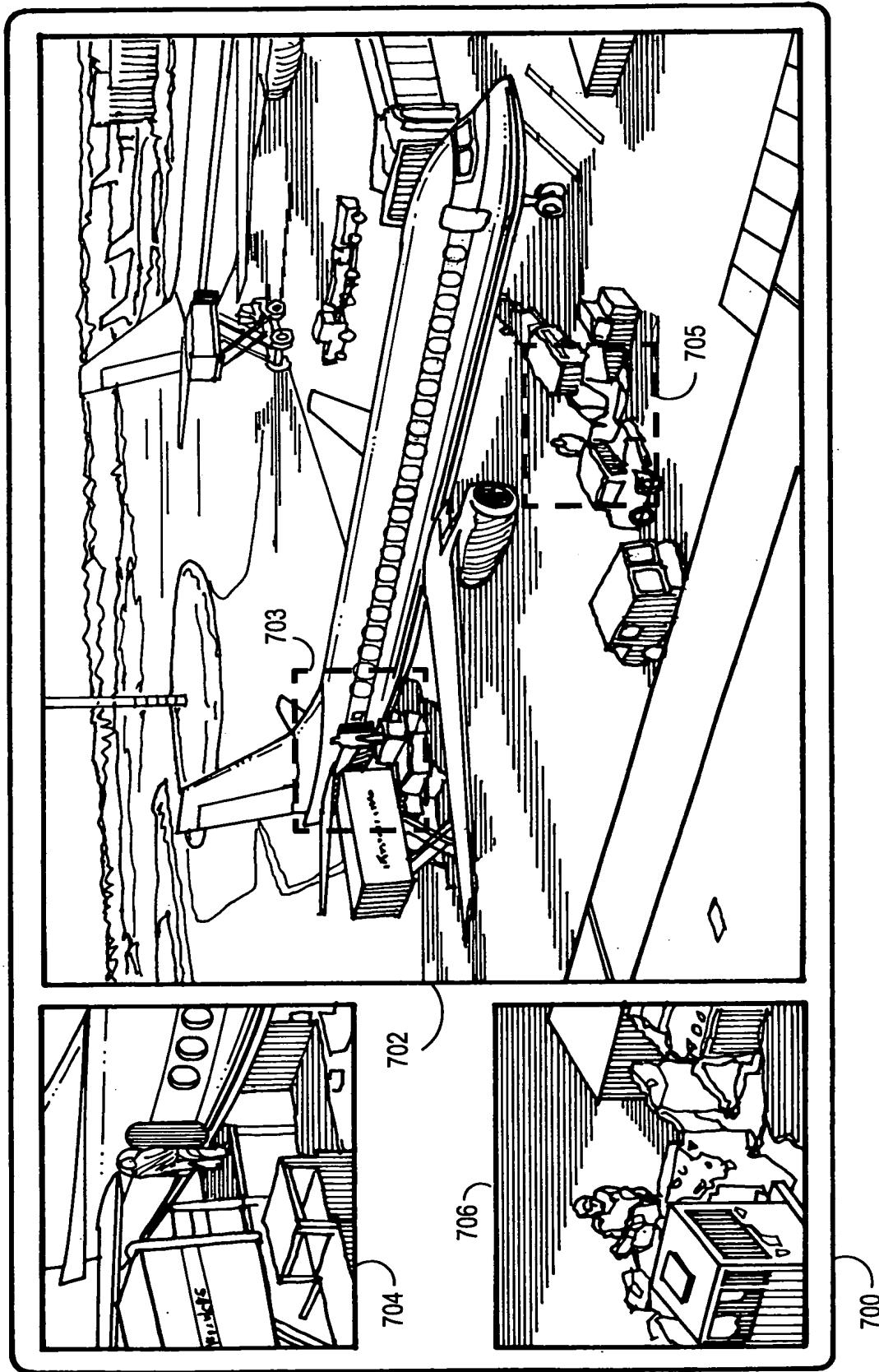


FIG. 6B



FIG. 6C

FIG. 7



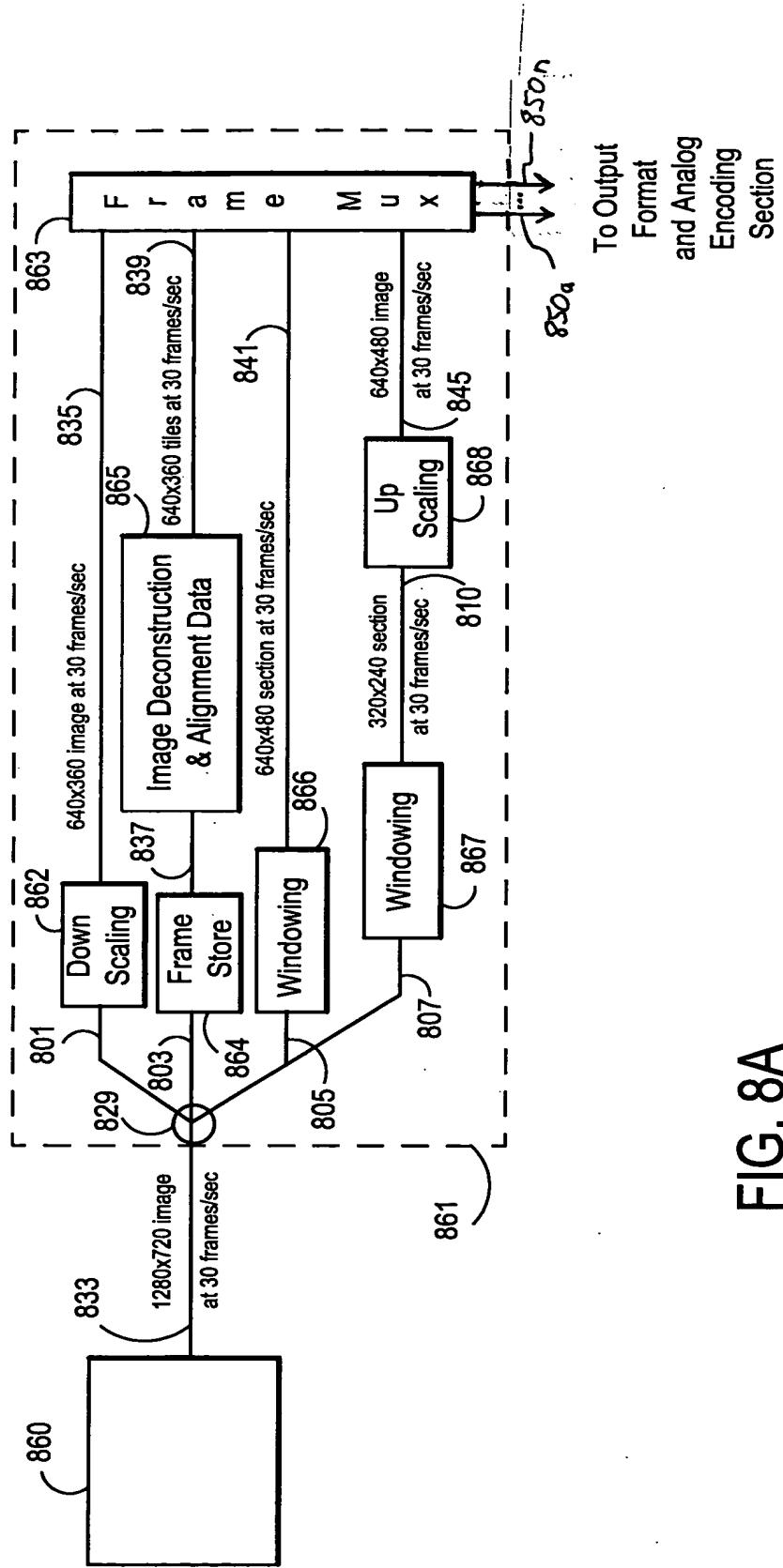
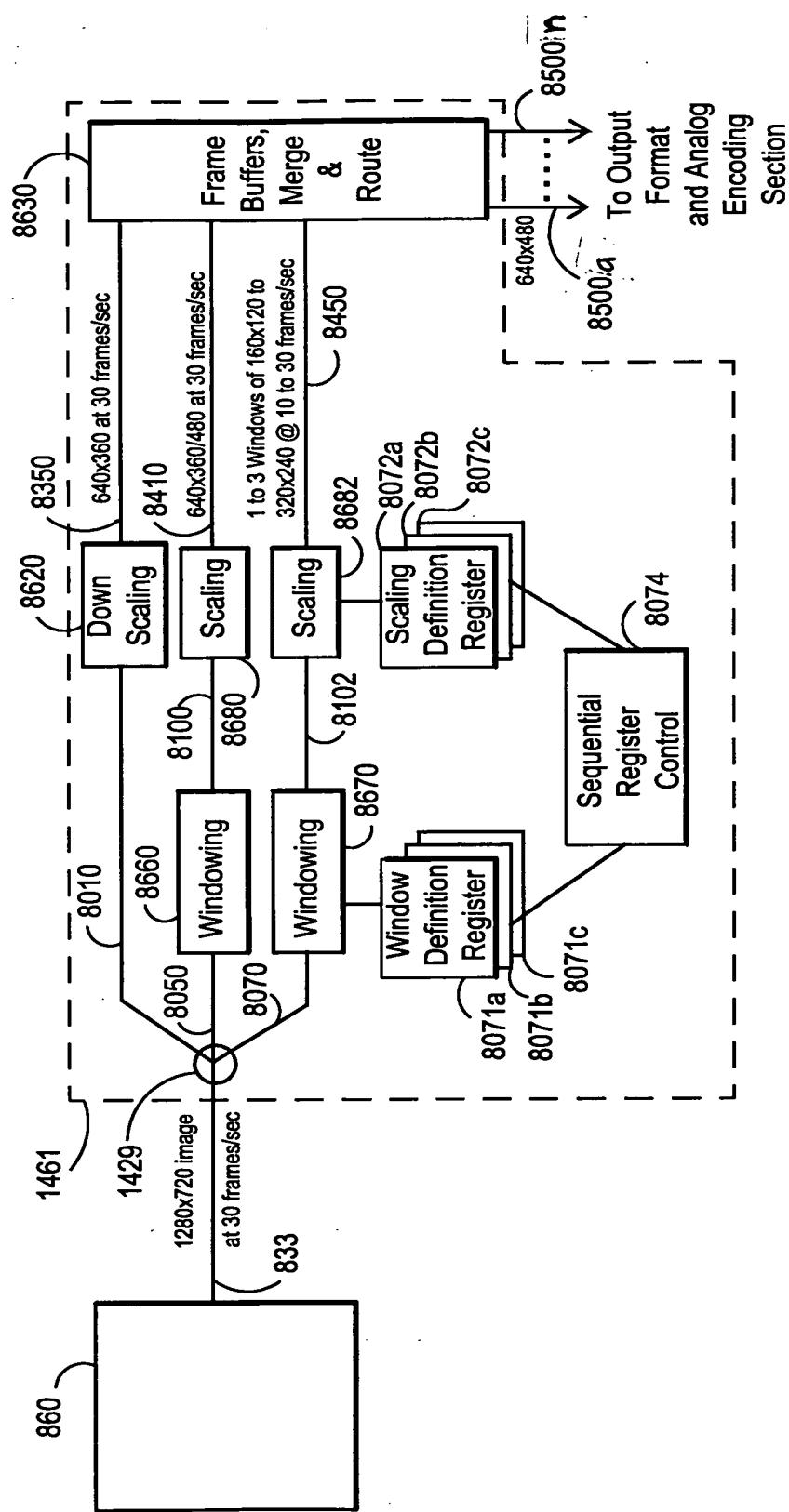


FIG. 8A

FIG. 8B



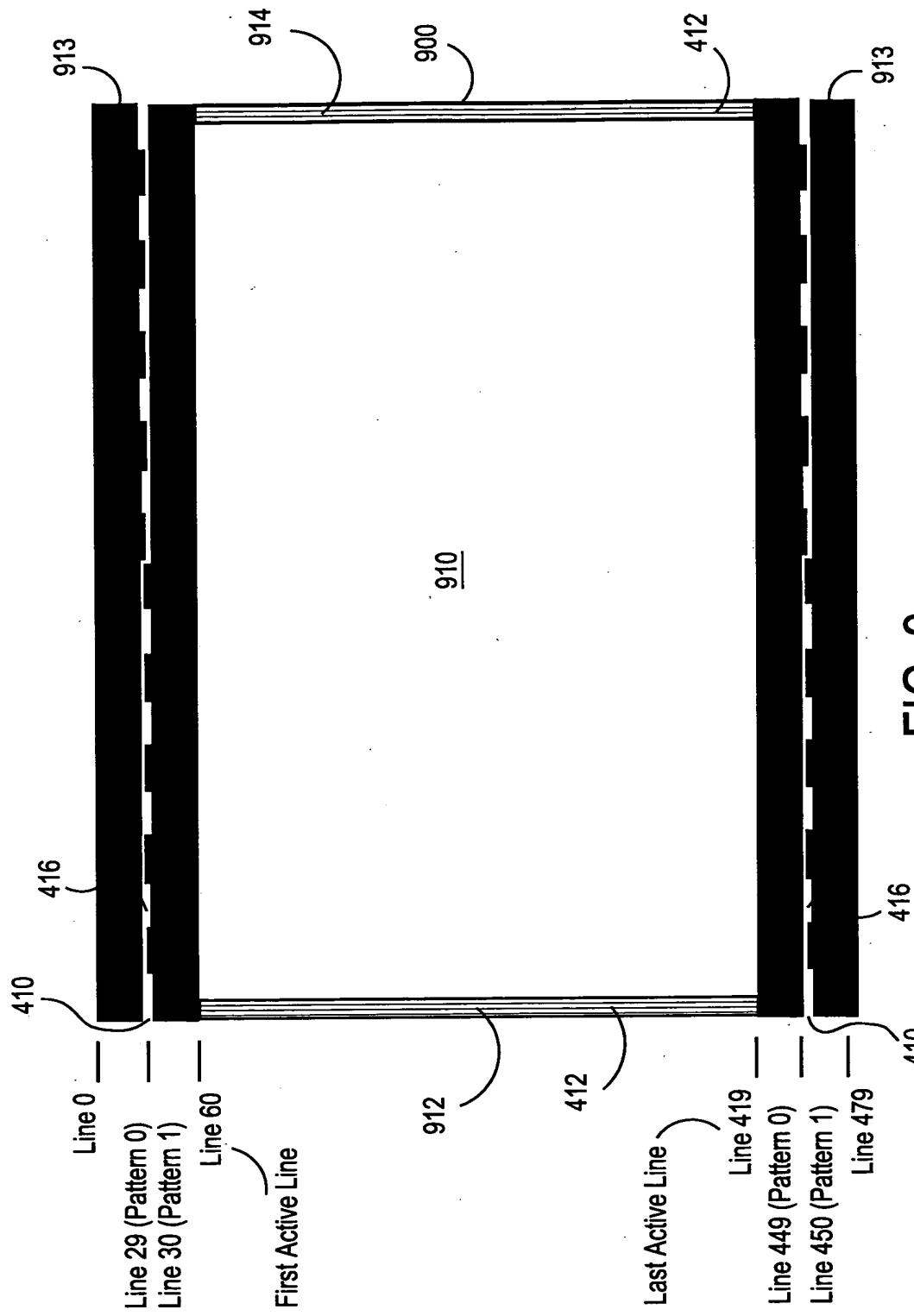


FIG. 9 De-Interlaced Active Frame

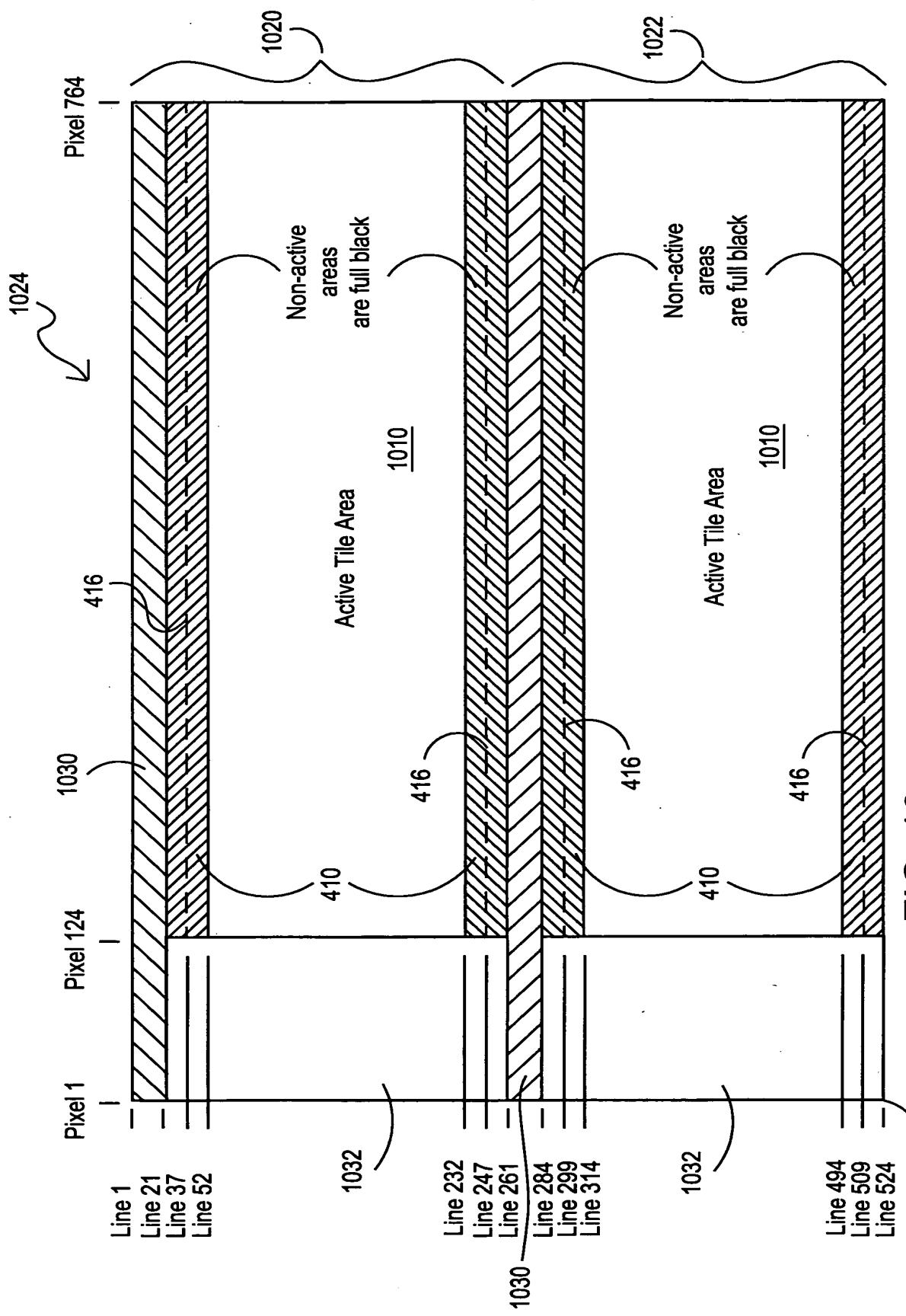


FIG. 10 Placement of the Tile Identifier Pattern in the Vertical Frame

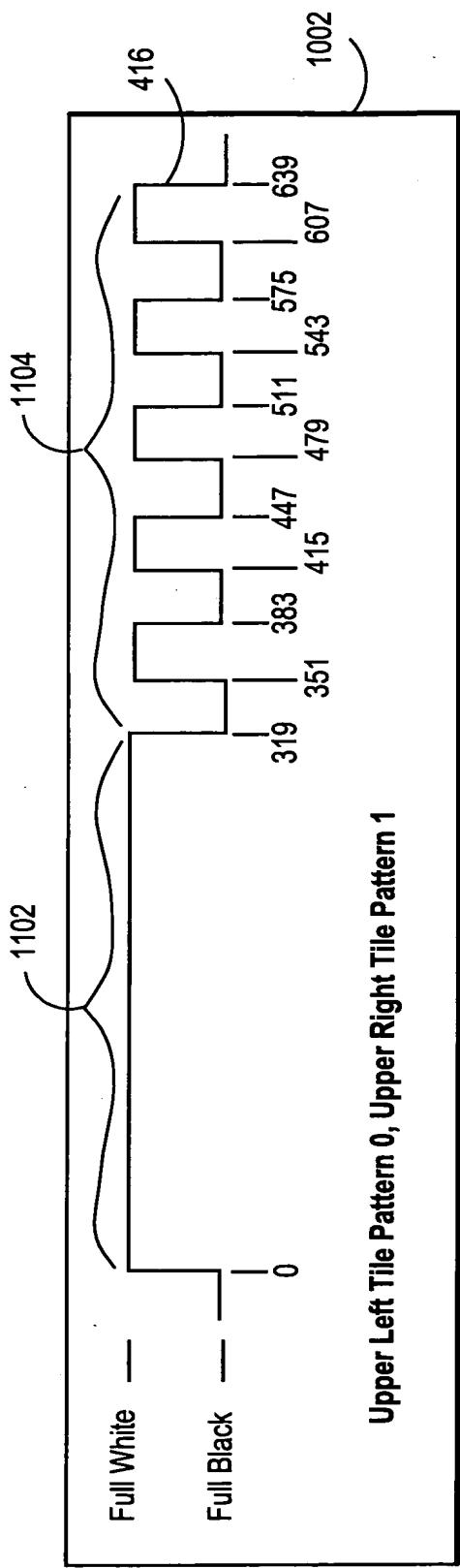


FIG. 11A

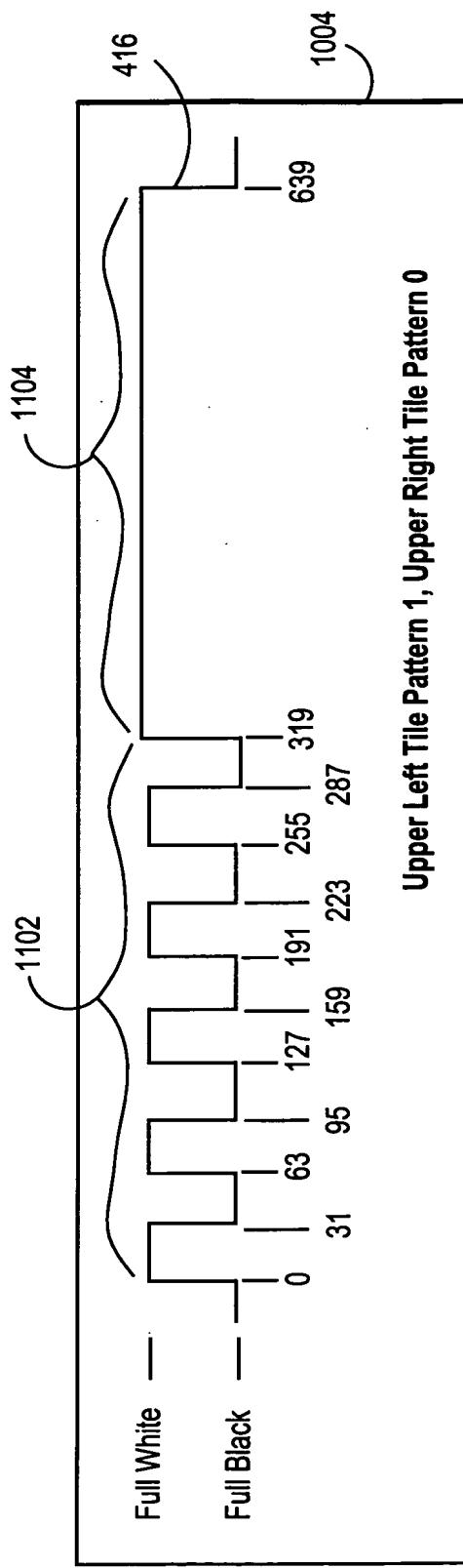


FIG. 11B

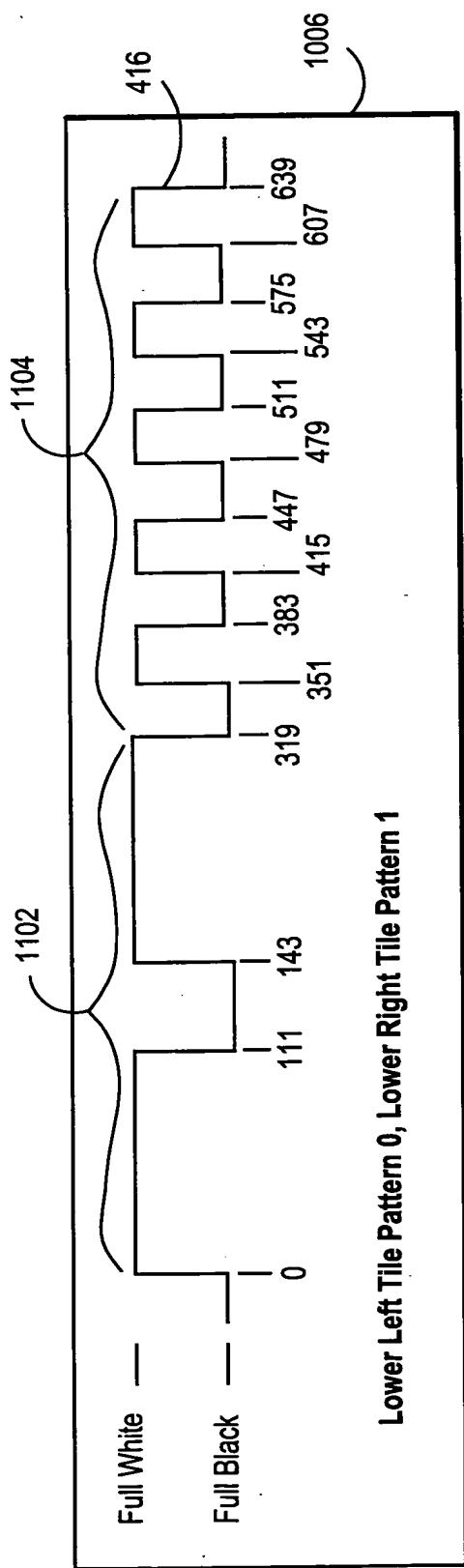


FIG. 11C

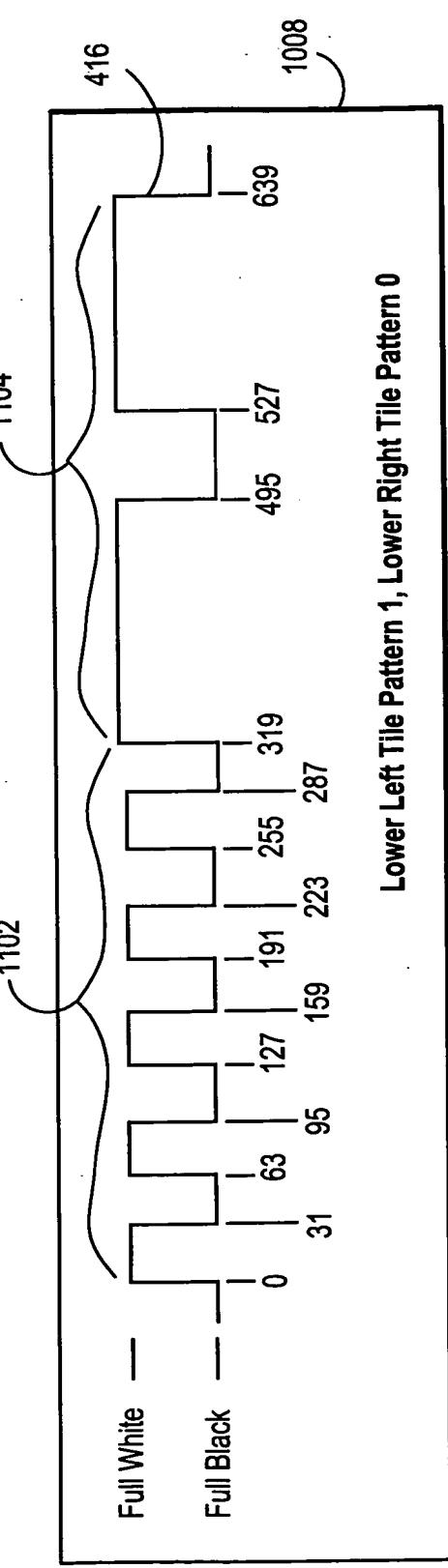


FIG. 11D

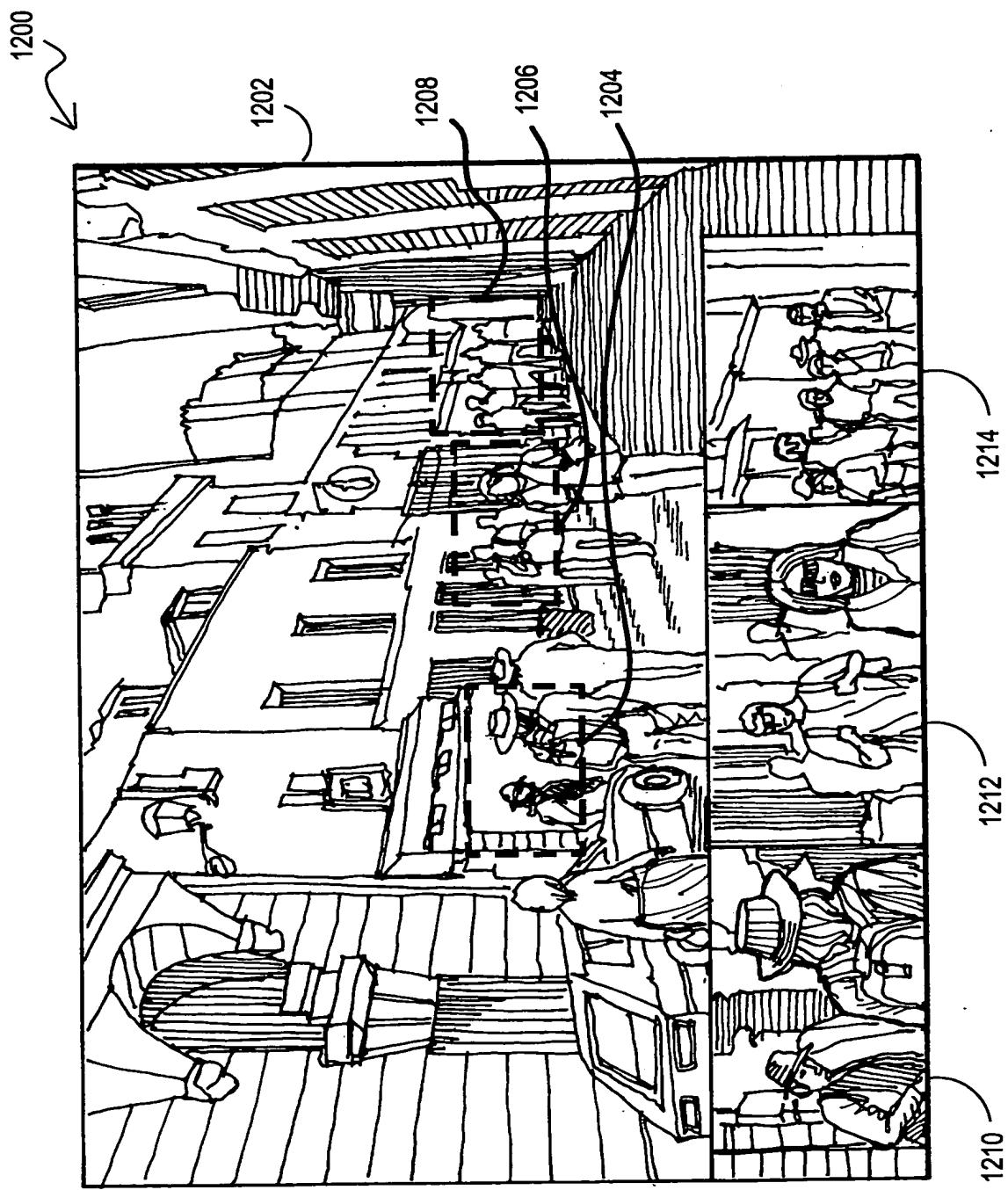


FIG. 12

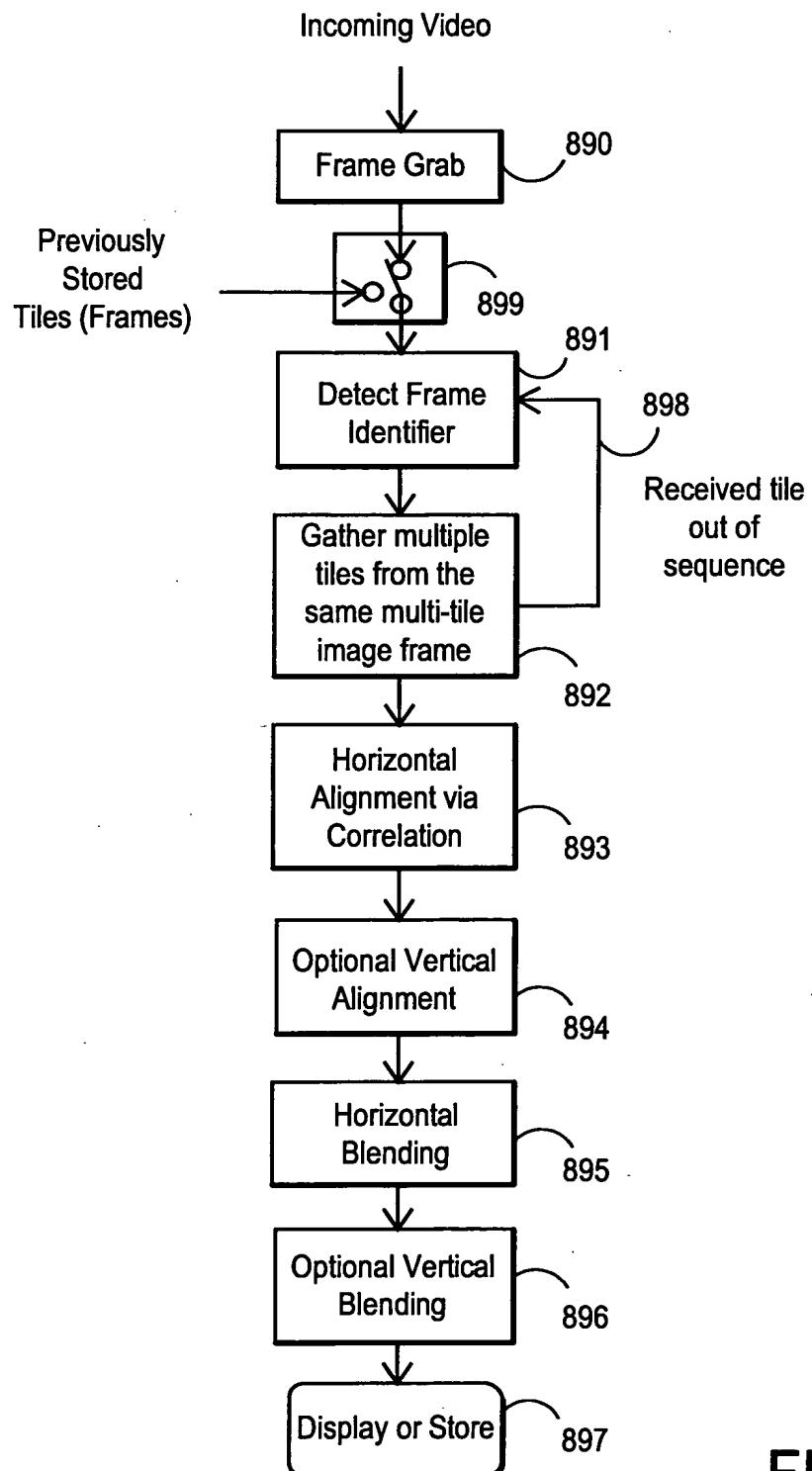


FIG. 13

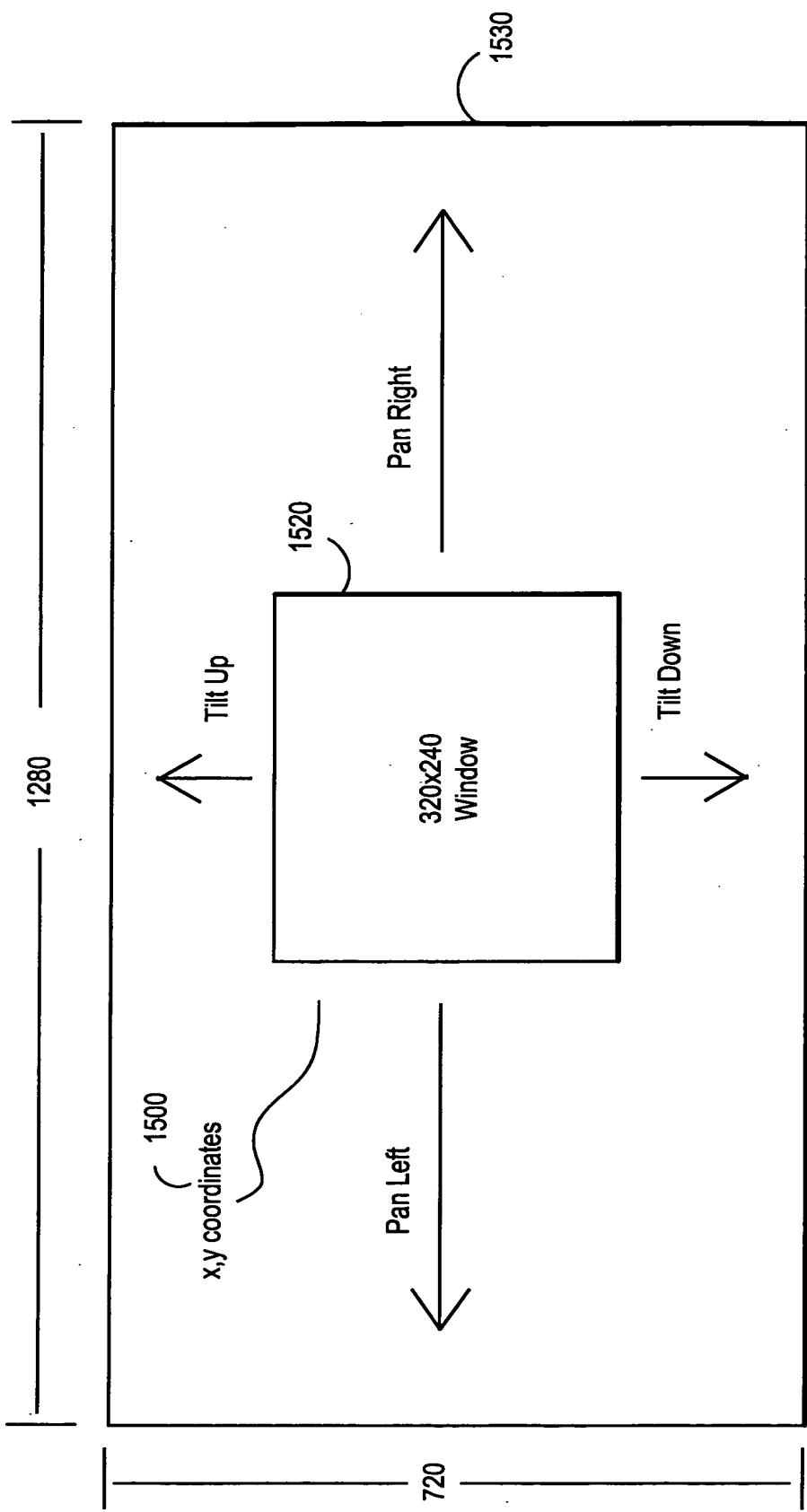


FIG. 14